

Comparisons of Job Characteristics

Focus Occupation: [Bus and Truck Mechanics and Diesel Engine Specialists \(49-3031\)](#)

Associated Occupation: [Helpers--Installation, Maintenance, and Repair Workers \(49-9098\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)

Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	15.0	21.1	>>	Current knowledge level is likely more than sufficient
Public Safety and Security	6.9	9.5	9.0	0	Current knowledge level may be sufficient
Engineering and Technology	5.7	9.1	6.1	<<	Extensive education and/or training may be required
Design	5.2	8.2	5.4	<<	Extensive education and/or training may be required
Building and Construction	4.0	6.9	4.5	<<	Extensive education and/or training may be required
Chemistry	4.8	6.8	3.8	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)

Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	10.8	10.0	0	Current skill level may be sufficient
Equipment Maintenance	3.5	10.7	10.2	0	Current skill level may be sufficient
Operation and Control	5.4	10.5	9.7	0	Current skill level may be sufficient
Quality Control Analysis	5.9	10.0	9.4	0	Current skill level may be sufficient
Repairing	3.4	9.4	11.2	>	Skill level is likely sufficient
Troubleshooting	4.5	9.3	11.0	>	Skill level is likely sufficient
Equipment Selection	3.3	8.7	7.5	<	A higher skill level may be required

Installation	1.7	5.8	2.2	<<	Extensive development of skills in this area may be required
Technology Design	2.6	5.8	2.5	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 84			
Focus Occupation: Bus and Truck Mechanics and Diesel Engine Specialists (49-3031) Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Extent Flexibility	4.8	13.4	10.3	<<	Extensive improvement in abilities may be required
Arm-Hand Steadiness	6.8	12.4	11.6	0	Current ability level may be sufficient
Static Strength	5.0	11.6	9.4	<	Some improvement in abilities may be required
Trunk Strength	5.7	11.1	9.0	<	Some improvement in abilities may be required
Hearing Sensitivity	5.6	10.1	11.4	>	Current ability level is likely sufficient
Dynamic Strength	3.5	8.5	5.6	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	8.4	6.2	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	7.5	6.4	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 85
Focus Occupation: Bus and Truck Mechanics and Diesel Engine Specialists (49-3031) Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Assemble, dismantle, or reassemble equipment or machinery	70	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Inspect machinery or equipment to determine adjustments or repairs needed	42	
Lubricate machinery, equipment, or parts	59	
Maintain or repair cargo or passenger vehicle	69	
Maintain welding machines or equipment	70	
Move or fit heavy objects	8	
Perform safety inspections in industrial, manufacturing or repair setting	32	

Read blueprints	10
Read work order, instructions, formulas, or processing charts	9
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Repair or replace malfunctioning or worn mechanical components	62
Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use hand or power tools	2
Use knowledge of metric system	39
Use pneumatic tools	66

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 83

Focus Occupation: Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)
Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)

Tools and Technologies	Exclusivity
Cleaning equipment	11
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Data management and query software	1
Face and head protection	7
Forming tools	2
Holding and clamping tools	3
Industry specific software	1
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Paint applicators and painting accessories	15
Pneumatic tools	8
Power tools	2
Pumps	9
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.